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1 The when, why and why not of the BETA programming language
   Bent Bruun Kristensen, Ole Lehrmann Madsen, Birger Møller-Pedersen
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   This paper tells the story of the development of BETA: a programming l
   instead of one abstraction mechanism for each kind of program element
   paper explains ...

   Keywords: history of programming, object-oriented analysis, object-or
   oriented programming, programming languages

2 Rapid file system development using ptrace
   Richard P. Spillane, Charles P. Wright, Gopalan Sivathanu, Erez Zadok
   June 2007   **ExpCS '07:** Proceedings of the 2007 workshop on Experimer
   Publisher: ACM
   Full text available: 📄 Pdf (192.70 KB)   Additional Information: full citation, at

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   Developing kernel-level file systems is a difficult task that requires a sig
   systems, it is desirable to develop a prototype before investing the time
   have ...

   Keywords: monitors, rapid prototyping

3 Static and metaprogramming patterns and static frameworks: a catal
   Philipp Bachmann
   October 2006   **PLoP '06:** Proceedings of the 2006 conference on Pattern lar
   Publisher: ACM
   Full text available: 📄 Pdf (800.99 KB)   Additional Information: full citation, at

   Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 63,   Downlo

   The classic UNIX principle to write code that generates code instead of v
   experiencing a revival. Much research was done, the techniques are bet

refined. ...

Keywords: design pattern, generative programming, generic programm
product lines, static polymorphism, template, template specialization

4 Portably solving file races with hardness amplification

Dan Tsafrir, Tomer Hertz, David Wagner, Dilma Da Silva

November 2008 **Transactions on Storage (TOS)** , Volume 4 Issue 3

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Full text available: Pdf (985.12 KB)   Additional Information: full citation, at

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The file-system API of contemporary systems makes programs vulnerab
race conditions. Existing solutions either help users to detect these prob
or prevent the ...

Keywords: Race conditions, TOCTTOU, time-of-check-to-time-of-use

5 Evolving a language in and for the real world: C++ 1991-2006

Bjarne Stroustrup

June 2007   **HOPL III**: Proceedings of the third ACM SIGPLAN conference

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index t

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 546, Downl

This paper outlines the history of the C++ programming language from
through the 1998 ISO standard, to the later stages of the C++0x revisic
ideals, constraints, ...

Keywords: C++, ISO, STL, evolution, history, language use, libraries,
language, standardization

6 Nu: a dynamic aspect-oriented intermediate language model and virt

Robert Dyer, Hridesh Rajan

March 2008   **AOSD '08**: Proceedings of the 7th international conference o

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Full text available: Pdf (562.12 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 57, Downloa

A variety of dynamic aspect-oriented language constructs are proposed
use cases. Such constructs demonstrate the need to dynamically adapt
level. ...

Keywords: Nu, aspect-oriented intermediate languages, aspect-oriente

7
A study of devirtualization techniques for a Java Just-In-Time compil

Kazuaki Ishizaki, Motohiro Kawahito, Toshiaki Yasue, Hideaki Komatsu, Tos
October 2000 **OOPSLA '00:** Proceedings of the 15th ACM SIGPLAN confere
languages, and applications

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Full text available: Pdf (225.89 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 76,   Downlo

Many devirtualization techniques have been proposed to reduce the run
object-oriented languages, however, most of them are less effective or
manner. This ...

Also published in:
October 2000 **SIGPLAN Notices** Volume 35 Issue 10

8 Dynamic software updates: a VM-centric approach
Suriya Subramanian, Michael Hicks, Kathryn S. McKinley
June 2009   **PLDI '09:** Proceedings of the 2009 ACM SIGPLAN conference
implementation

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Full text available: Pdf (470.48 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 365,   Downl

Software evolves to fix bugs and add features. Stopping and restarting
often costly. Dynamic software updating (DSU) addresses this problem
existing DSU systems ...

Keywords: dynamic software updating, garbage collection, virtual mac

Also published in:
May 2009 **SIGPLAN Notices** Volume 44 Issue 6

9 A machine-checked model for a Java-like language, virtual machine,
Gerwin Klein, Tobias Nipkow
July 2006   **Transactions on Programming Languages and Systems**

Publisher: ACM Request Permissions

Full text available: Pdf (2.68 MB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 159,   Downl

We introduce Jinja, a Java-like programming language with a formal ser
Java language architecture. Jinja is a compromise between the realism
its formal ...

Keywords: Java, operational semantics, theorem proving

10 PyF95++: a templating capability for the Fortran 95/2003 language
David Car, Michael List
April 2010   **SIGPLAN Fortran Forum** , Volume 29 Issue 1
Publisher: ACM

Full text available: Additional Information:

Pdf (105.51 KB)   full citation, reference

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 56, Downlo

11 Multitasking without comprimise: a virtual machine evolution
Grzegorz Czajkowski, Laurent Daynés
November 2001 **OOPSLA '01:** Proceedings of the 16th ACM SIGPLAN confe
            languages, and applications
Publisher: ACM   Request Permissions
Full text available: Pdf (220.97 KB)   Additional Information: full citation, ab

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 64, Downloa

The multitasking virtual machine (called from now on simply MVM) is a
enables safe, secure, and scalable multitasking. Safety is achieved by s
Resource control ...

Keywords: Java virtual machine, application isolation, native code exec

Also published in:
November 2001 **SIGPLAN Notices** Volume 36 Issue 11

12 SlimVM: a small footprint Java virtual machine for connected embed
Christoph Kerschbaumer, Gregor Wagner, Christian Wimmer, Andreas Gal,
August 2009 **PPPJ '09:** Proceedings of the 7th International Conference o
Publisher: ACM   Request Permissions
Full text available: Pdf (987.86 KB)   Additional Information: full citation, ab

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 74, Downloa

The usage of cellular phones, PDAs, and other mobile devices has incre
targeted to be one of the most popular execution environments on such
inherently limited ...

Keywords: Java virtual machine, code-size reduction, connected embe
optimization

13 Computing curricula 2001
CORPORATE The Joint Task Force on Computing Curricula
September 2001 **Journal on Educational Resources in Computing (JER**
Publisher: ACM   Request Permissions
Full text available: Html (2.78 KB), Pdf (613.63 KB) Additional Information: full citatic

Bibliometrics: Downloads (6 Weeks): 91, Downloads (12 Months): 1091, Down

14 A region-based compilation technique for dynamic compilers
Toshio Suganuma, Toshiaki Yasue, Toshio Nakatani
January 2006 **Transactions on Programming Languages and Systems**
Publisher: ACM   Request Permissions
Full text available: Pdf (977.63 KB)   Additional Information: full citation, ab

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 117, Downl

Method inlining and data flow analysis are two major optimization comp
they often suffer from the existence of rarely or never executed code cc
lies in the ...

Keywords: JIT compiler, Region-based compilation, dynamic compilatic

15 Formalizing the safety of Java, the Java virtual machine, and Java ca
Pieter H. Hartel, Luc Moreau
December 2001 **Computing Surveys (CSUR)** , Volume 33 Issue 4
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (442.86 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 453, Downl

We review the existing literature on Java safety, emphasizing formal ap
footprint devices such as smartcards. The conclusion is that although a
effort is ...

Keywords: Common criteria, programming

16 A join point for loops in AspectJ
Bruno Harbulot, John R. Gurd
March 2006 **AOSD '06:** Proceedings of the 5th international conference o
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (415.91 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 74, Downlo

The current AspectJ join points represent locations in the code that are
the "things that happen" happen at the interfaces. In particular, loops a
parallelisation. ...

Keywords: AspectJ, loop join point

17 Measuring the dynamic behaviour of AspectJ programs
Bruno Dufour, Christopher Goard, Laurie Hendren, Oege de Moor, Ganesh .
October 2004 **OOPSLA '04:** Proceedings of the 19th annual ACM SIGPLAN
                    systems, languages, and applications
Publisher: ACM ◇ Request Permissions
Full text available: 🔲 Pdf (226.86 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 89, Downloa

This paper proposes and implements a rigorous method for studying the
of this methodology several new metrics specific to AspectJ programs a
metrics are presented. ...

Keywords: AspectJ, aspect-oriented programming, dynamic metrics, ja

Also published in:
October 2004 **SIGPLAN Notices** Volume 39 Issue 10

18 The potential of speculative class-loading
Dmitrijs Zaparanuks, Milan Jovic, Matthias Hauswirth
September 2007 **PPPJ '07:** Proceedings of the 5th international symposium
Publisher: ACM
Full text available: Pdf (339.76 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 12,   Downloa

Platforms such as Java provide many software engineering benefits. Ho
significant runtime overhead. In this paper we study the potential for hi
speculative execution …

Keywords: Markov predictor, speculative class-loading

19 Towards a formal model for security policies specification and valida
Giorgio Zanin, Luigi Vincenzo Mancini
June 2004   **SACMAT '04:** Proceedings of the ninth ACM symposium on A
Publisher: ACM Request Permissions
Full text available: Pdf (257.36 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 73,   Downloa

This paper presents a formal model, called SELAC, for analyzing an arbi
system. A security policy for SELinux is complex and large: it is made b
control …

Keywords: configuration, formal model, security enhanced linux

20 Extending Dynamic Constraint Detection with Polymorphic Analysis
Nadya Kuzmina, Ruben Gamboa
May 2007   **WODA '07:** Proceedings of the 5th International Workshop o
Publisher: IEEE Computer Society
Full text available: Pdf (562.70 KB)   Additional Information: full citation, at

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 13,   Downloa

The general technique for dynamically detecting likely invariants, as imp
support for polymorphism. Daikon examines only the declared type of a
the runtime …

Result pag